

PARALLEL DRIVING MECHANISM FOR OPTICAL CHASSIS

ABSTRACT

A parallel driving mechanism for an optical chassis in a scanner includes a casing, an optical chassis, a linkage member, a screw bar and a driving member. The casing has two parallel guide rails. The optical chassis has two rollers at two ends movably resting on the guide rails and two pivotal joints. The linkage member has two symmetrical upper links pivotally engaging with two symmetrical lower links on two sleeves which have opposite internal screw threads formed therein. The driving member may rotate the screw bar which moves the sleeves to move toward or against each other so that the upper and lower links may be extended or withdrawn to move the optical chassis moving reciprocally on the guide rails to perform scanning operation.